



PROJECT NUMBER: 338884.FL	BORING NUMBER: MW16D
SHEET 1 OF 7	
SOIL BORING LOG	

PROJECT : Progress Energy Florida - COLA Investigation, Levy County Site LOCATION : (1723086.9 N, 458110.5 E)
 ELEVATION : 43.3 ft MSL (NGVD83) DRILLING CONTRACTOR : Prosonic, Ocala, FL; Driller: J. Gerwig
 DRILLING EQUIPMENT AND METHOD : Minisonic S/N 1412, sonic, 4"x6" ORIENTATION : Vertical

WATER LEVELS : --- START : 2/11/07 14:05 END : 2/12/07 13:00 LOGGER : R. Gomez

DEPTH BELOW EXISTING GRADE (ft)		INTERVAL (ft)		STANDARD PENETRATION TEST RESULTS		SOIL DESCRIPTION		SYMBOLIC LOG		COMMENTS	
		RECOVERY (in)		6"-6"-6" (N)		SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY				DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION	
		#TYPE									
43.3	0.0						Poorly Graded Sand (SP) 0.0-2.0' - black, wet, very fine to fine grained, trace roots, silica sand				
		36.0	R1-SN				Poorly Graded Sand With Silt (SP-SM) 2.0-3.0' - light brown, (5 YR 5/6), wet, very fine to fine grained, nonplastic to low plasticity fines, silica sand No Recovery 3.0-5.0'				
5	5.0										
38.3							Silt (ML) 5.0-9.5' - grayish orange, (10 YR 7/4), wet, nonplastic, silica sand				
		54.0	R2-SN								
10	10.0						No Recovery 9.5-10.0'				
33.3							Silt (ML) 10.0-10.5' - strong HCl reaction, cemented silts with calcium carbonate precipitation				
		48.0	R3-SN				Silt (ML) 10.5-14.0' - grayish orange, (10 YR 7/4), wet, nonplastic, carbonate material				
15	15.0						No Recovery 14.0-15.0'				
28.3							Silt (ML) 15.0-20.0' - grayish orange, (10 YR 7/4), moist, nonplastic, blocky partings, <15% sand-sized fragments, carbonate material				
		60.0	R4-SN								
20											



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SHEET 2 OF 7

SOIL BORING LOG

PROJECT : Progress Energy Florida - COLA Investigation, Levy County Site LOCATION : (1723086.9 N, 458110.5 E)

ELEVATION : 43.3 ft MSL (NGVD83)

DRILLING CONTRACTOR : Prosonic, Ocala, FL; Driller: J. Gerwig

DRILLING EQUIPMENT AND METHOD : Minisonic S/N 1412, sonic, 4"x6"

ORIENTATION : Vertical

WATER LEVELS : ---

START : 2/11/07 14:05

END : 2/12/07 13:00

LOGGER : R. Gomez

WATER LEVELS:		START: 2/1/87 14:00		END: 2/1/87 0:00		LOGGERS: R. GORME	
DEPTH BELOW EXISTING GRADE (ft)	INTERVAL (ft)		STANDARD PENETRATION TEST RESULTS		SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
	RECOVERY (in)	#TYPE	6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION		
23.3	20.0				Silt (ML) 20.0-23.5' - very pale orange, (10 YR 8/2), wet, moderate HCl reaction, organic fragments up to 1cm in size, carbonate material		
		60.0	R5-SN				
25	25.0				Silt With Sand (ML) 23.5-30.0' - very pale orange, (10YR 8/2), dry to moist, nonplastic, blocky partings, sand-sized carbonate fragments, carbonate materials, indurated silt particles up to 1/2" in size		
18.3							
		60.0	R6-SN				
30	30.0						
13.3					Silt With Sand (ML) 30.0-35.0' - grayish orange to pale yellowish brown, (10 YR 7/4 to 10YR 6/2), moist, blocky partings, est. 10-20% sand sized, all carbonate materials		
		60.0	R7-SN				
35	35.0						
8.3					Limestone 35.0-40.0' - moderate yellowish brown, (10 YR 5/4), fossiliferous, shells, fossil molds and casts, broken fragments <1/8", voids over 30-40% of surface		
		60.0	R8-SN				
40							



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SHEET 3 OF 7

SOIL BORING LOG

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ELEVATION : 43.3 ft MSL (NGVD83)

DRILLING CONTRACTOR : Prosonic, Ocala, FL; Driller: J. Gerwig

DRILLING EQUIPMENT AND METHOD : Minisonic S/N 1412, sonic, 4"x6"

ORIENTATION : Vertical

WATER LEVELS : ---

START : 2/11/07 14:05

END : 2/12/07 13:00

LOGGER : R. Gomez

DEPTH BELOW EXISTING GRADE (ft)		INTERVAL (ft)		RECOVERY (in)		#TYPE		STANDARD PENETRATION TEST RESULTS		SOIL DESCRIPTION		SYMBOLIC LOG		COMMENTS	
								6"-6"-6" (N)		SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY				DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION	
3.3	40.0									Silty Sand (SM) 40.0-42.0' - dark yellowish brown, (10 YR 4/2), wet, very fine to fine grained, carbonate materials					
		24.0	R9-SN							No Recovery 42.0-45.0'					
45	45.0														
-1.7										Sandy Silt (ML) 45.0-49.5' - moderate yellowish brown, (10 YR 5/4), moist, blocky, 10-15% indurated sandy silt fragments, carbonate materials					
		54.0	R10-SN												
50	50.0														
-6.7										Sandy Silt (ML) 50.0-52.0' - moist, blocky partings, sand-sized and 3-4 gravel-sized fossiliferous limestone fragments					
		60.0	R11-SN							Silt (ML) 52.0-57.0' - dark yellowish orange to grayish brown, (10 YR 6/6 to 5YR 3/2), moist, low plasticity, organic laminations (<3/8" in size), carbonate					
55	55.0														
-11.7															
		60.0	R12-SN							Silt 57.0-60.0' - grayish orange, (10YR 7/4), moist, nonplastic, blocky, <10% indurated silt fragments, carbonate materials					
60															



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SHEET 4 OF 7	
SOIL BORING LOG	

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 DRILLING EQUIPMENT AND METHOD : Minisonic S/N 1412, sonic, 4"x6" ORIENTATION : Vertical

WATER LEVELS : --- START : 2/11/07 14:05 END : 2/12/07 13:00 LOGGER : R. Gomez

DEPTH BELOW EXISTING GRADE (ft)		INTERVAL (ft)		STANDARD PENETRATION TEST RESULTS		SOIL DESCRIPTION		SYMBOLIC LOG		COMMENTS	
		RECOVERY (in)		6"-6"-6" (N)		SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY				DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION	
		#TYPE									
-16.7	60.0						Sandy Silt (ML) 60.0-61.5' - Same as 50.0-52.0' except more sand-sized fragments				
							Begin Rock Coring at 61.5 ft bgs See the next sheet for the rock core log				
65											
-21.7											
70											
-26.7											
75											
-31.7											
80											



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SHEET 5 OF 7

ROCK CORE LOG

PROJECT : Progress Energy Florida - COLA Investigation, Levy County Site LOCATION : (1723086.9 N, 458110.5 E)

ELEVATION : 43.3 ft MSL (NGVD83)

DRILLING CONTRACTOR : Prosonic, Ocala, FL; Driller: J. Gerwig

CORING EQUIPMENT AND METHOD : Minisonic S/N 1412

ORIENTATION : Vertical

WATER LEVELS : ---

START : 2/11/07 14:05

END : 2/12/07 13:00

LOGGER : R. Gomez

WATER LEVEL (ft)		DISCONTINUITIES		SYMBOLIC LOG	LITHOLOGY		COMMENTS	
DEPTH AND ELEVATION BELOW SURFACE (ft)	CORE RUN, LENGTH, AND RECOVERY (%)	R Q D (%)	FRACTURES PER FOOT		DESCRIPTION	ROCK TYPE, COLOR, MINERALOGY, TEXTURE, WEATHERING, HARDNESS, AND ROCK MASS CHARACTERISTICS	SIZE AND DEPTH OF CASING, FLUID LOSS, CORING RATE AND SMOOTHNESS, CAVING ROD DROPS, TEST RESULTS, ETC.	
					DEPTH, TYPE, ORIENTATION, ROUGHNESS, PLANARITY, INFILLING MATERIAL AND THICKNESS, SURFACE STAINING, AND TIGHTNESS			
65 -21.7 <								



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SHEET 6 OF 7

ROCK CORE LOG

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ELEVATION : 43.3 ft MSL (NGVD83)

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CORING EQUIPMENT AND METHOD : Minisonic S/N 1412

ORIENTATION : Vertical

WATER LEVELS : ---

START : 2/11/07 14:05

END : 2/12/07 13:00

LOGGER : R. Gomez

WATER LEVEL (ft)		DISCONTINUITIES		SYMBOLIC LOG	LITHOLOGY		COMMENTS	
DEPTH AND ELEVATION BELOW SURFACE (ft)	CORE RUN, LENGTH, AND RECOVERY (%)	R Q D (%)	FRACTURES PER FOOT		DESCRIPTION	ROCK TYPE, COLOR, MINERALOGY, TEXTURE, WEATHERING, HARDNESS, AND ROCK MASS CHARACTERISTICS	SIZE AND DEPTH OF CASING, FLUID LOSS, CORING RATE AND SMOOTHNESS, CAVING ROD DROPS, TEST RESULTS, ETC.	
					DEPTH, TYPE, ORIENTATION, ROUGHNESS, PLANARITY, INFILLING MATERIAL AND THICKNESS, SURFACE STAINING, AND TIGHTNESS			
85 -41.7 								



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SHEET 7 OF 7

ROCK CORE LOG

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WATER LEVEL (ft)		DISCONTINUITIES		SYMBOLIC LOG	LITHOLOGY		COMMENTS	
DEPTH AND ELEVATION BELOW SURFACE (ft)	CORE RUN, LENGTH, AND RECOVERY (%)	R Q D (%)	FRACTURES PER FOOT		DESCRIPTION	ROCK TYPE, COLOR, MINERALOGY, TEXTURE, WEATHERING, HARDNESS, AND ROCK MASS CHARACTERISTICS	SIZE AND DEPTH OF CASING, FLUID LOSS, CORING RATE AND SMOOTHNESS, CAVING ROD DROPS, TEST RESULTS, ETC.	
					DEPTH, TYPE, ORIENTATION, ROUGHNESS, PLANARITY, INFILLING MATERIAL AND THICKNESS, SURFACE STAINING, AND TIGHTNESS			
105 -61.7 								